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Detection of Moisture and Moisture Related
Phenomena from Skylab

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Joe R. Eagleman
Principal Investigator

(E75-10307) MAPPING OF SNOW COVER AND
FREEZE THAW LINE Progress Report, May 1975
(Kansas Univ. Center for Research, Inc.)
4 p HC \$3.25

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Technical Report 239-22
Progress Report May, 1975



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Mapping of Snow Cover and Freeze-thaw Line

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Progress Report
Mapping of Snow Cover and Freeze-thaw Line

The bulk of the work effort to date has involved the collection of ground-truth data for the four Skylab (SL4) passes and the two aircraft passes and the compilation of that data. Also some effort has gone into a literature search and the development of a bibliography on the subject. Much of the ground-truth information is now available; however, as experience with the soil moisture phase of the project has indicated, analysis of the SL4 data will produce anomalies that will require additional ground information searches for explanation.

Recent work effort has been diverted toward the analysis of the S194 data for the Skylab passes on January 11 and January 14. Also preparations are being made to begin the analysis of the aircraft Radscat data for the 16th and 24th of January. Although the analysis of the S194 data is proceeding, we feel the most fruitful efforts will result from the joint comparison of both the S193 and S194 data with the ground-truth information. This interaction is presently awaiting the arrival of the S193 data.

Snow Cover Mapping Project

SKYLAB DATA SL-4

Data	Jan 11-GT 58	Jan 12-GT 1	Jan 14-GT 30	Jan 24-Gt 33
Ground Truth Available	X	X	X	X
<u>S190A</u>				
Tabs			X	X
Tape				
Film			X	X
<u>S190B</u>				
Tabs	X		X	
Tape				
Film	X		X	
<u>S192</u>				
Tabs	X		X	
Tape	X			
Film	X		X	
<u>S193 SCAT</u>				
Tabs				
Tape	X		X	
<u>S194</u>				
Tabs	X		X	X
Tape	X		X	X

AIRCRAFT DATA

Data	Jan 16	Jan 24
Ground Truth Available	X	X
Tabs	X	
Tape	X	
Film	X(RC-8)	X(RC-8)